



Mar 2 10 53 AM '98

WASTE
CIVIL

February 27, 1998

Mr. Chuck Schwer
Sites Management Section
VTDEC WMD
103 South Main St./ West Bldg.
Waterbury, VT 05671-0404

RE: Initial Investigation of Subsurface Petroleum Contamination at Midway Minit Stop, St. Albans, Vermont (VTDEC Site #97-2243)

Dear Mr. Schwer:

Enclosed please find the January 1998 report titled *Initial Investigation of Subsurface Petroleum Contamination at Midway Minit Stop*. Mr. Walt LaBounty of Food & Gas requested that a copy be forwarded to you for review. Please do not hesitate to call, if you have any questions or comments.

Sincerely,

Robert Higgins
Engineer

Enc.

cc: Mr. Walt LaBounty, Food & Gas, Inc. (w/out Enc.)
GI #89741073

**INITIAL INVESTIGATION OF
SUBSURFACE PETROLEUM CONTAMINATION AT
MIDWAY MINIT STOP**

JANUARY 22, 1998

Site Location:

**Midway Minit Stop
248 North Main Street
St. Albans, VT
(VTDEC SITE #97-2243)
GI Project # 89741073**

Prepared For:

**Mr. Walt LaBounty
Food & Gas, Inc.
257 East Allen Street
Winooski, VT 05404
(802) 655-5779**

Prepared By:



P.O. Box 943 / 19 Commerce Street Williston, VT 05495 (802) 865-4288

TABLE OF CONTENTS

I.	INTRODUCTION	1
II.	SITE BACKGROUND	
	A. Site History	1
	B. Site Description	1
	C. Site Geologic Setting	2
III.	INVESTIGATIVE PROCEDURES	
	A. Monitoring Well Installation	2
	B. Determination of Groundwater Flow Direction and Gradient	3
	C. Groundwater Sample Collection and Analysis	4
	D. Sensitive Receptor Risk Assessment	4
IV.	CONCLUSIONS	5
V.	RECOMMENDATION	6

APPENDICES

A.	MAPS	
	1) Site Location Map	
	2) Site Map	
	3) Groundwater Contour Map	
	4) Contaminant Concentration Map	
B.	WELL LOGS	
C.	GROUNDWATER LIQUID LEVEL DATA	
D.	GROUNDWATER QUALITY SUMMARY DATA	
E.	LABORATORY ANALYSIS REPORTS	

I. INTRODUCTION

This report summarizes the initial investigation of suspected subsurface petroleum contamination at the Midway Minit Stop located at 248 North Main Street in St. Albans, VT (see location map in Appendix A). This investigation was conducted by Griffin International, Inc. (Griffin) for Food and Gas, Inc., to address petroleum contamination detected during the closure of five gasoline underground storage tanks (USTs) at the site in August of 1997. The Vermont Department of Environmental Conservation (VTDEC) requested that this work be completed in a letter to Mr. LaBounty of Food and Gas, Inc., from Mr. Chuck Schwer of the VTDEC, dated November 11, 1997. All work at the site was conducted in accordance with the November 24, 1997 Work Plan and Cost Estimate prepared by Griffin. The Work Plan was implemented through the VTDEC's Site Investigation Expressway Notification process. The site (VTDEC Site #97-2243) is owned by Food and Gas, Inc., of Winooski, VT.

Work conducted at the site included the installation of three groundwater monitoring wells and the collection and laboratory analysis of groundwater samples from these wells. Also, a sensitive receptor risk assessment was conducted following the receipt of this data to assess the risk that subsurface petroleum contamination at the site may pose to potentially sensitive receptors identified in the site vicinity.

II. SITE BACKGROUND

A. Site History

On August 28 and 29, 1997 five USTs (one 3,000-gallon gasoline and four 4,000-gallon gasoline) were permanently closed and removed from the ground at the Midway Minit Stop. During the closure inspection, petroleum contaminated soils were detected in the vicinity of the USTs. Because of the adjacent building and retaining wall, the extent and degree of petroleum contamination to the subsurface could not be adequately defined at the time of the closure inspection conducted in August of 1997.

The VTDEC requested that additional work be conducted at the site in order to determine the extent and degree of petroleum contamination relative to the former gasoline USTs. Mr. Walt LaBounty retained the services of Griffin to conduct this investigation.

B. Site Description

The Midway Minit Stop is located at 248 North Main Street (Route 7) in St. Albans, VT. The site consists of one building situated on a mostly paved lot. The building currently houses three businesses: A. Brown Tire and Auto, Brannon's Grocery, and Brannon's Pools. A new addition attached to the southwest side of the building will house a fitness center and an indoor swimming

pool. All buildings in the vicinity are serviced by municipal water and sewer systems (see the Site Map included in Appendix A).

C. Site Geologic Setting

According to the Surficial Geologic Map of Vermont (Ref. 1), the site is underlain by fluvial gravel. Bedrock at the site is of the Parker Slate formation, which consists predominately of slate and shale (Ref. 2).

III. INVESTIGATIVE PROCEDURES

A. Monitoring Well Installation

On December 22, 1997, three groundwater monitoring wells were installed by Adams Engineering of Underhill, VT, under the direct supervision of a Griffin engineer. The installation of a fourth well (MW-1) was abandoned after several attempts due to the shallow depth of bedrock and the lack of groundwater in the proposed monitoring well location. Soil borings were advanced with a truck mounted vibratory soil core sampler. The monitoring wells, designated MW-2 through MW-4, were installed to help define the degree and extent of petroleum contamination in the vicinity of the former on-site gasoline USTs. MW-2 was installed in the vicinity of the former pump island. MW-3 was installed on the east edge of the former UST basin. MW-4 was installed in a presumed downgradient location.

The monitoring wells are constructed of 1.5 inch diameter, schedule 40 PVC, with five to ten foot lengths of 0.010-inch slotted screen. With the vibratory method of drilling, the monitoring wells are installed in the open borehole, following removal of the sampler. The annulus between the borehole wall and the screened section of each well is filled with a sand pack to filter fine sediments in groundwater from entering the well. Above the sand pack, the annulus is filled with a 1 to 2 foot thick bentonite clay grout seal to prevent surface water from entering the borehole. The well was protected at the surface by a flush mounted steel well head protective casing and a bolt down cover. The well head protection casing is set in cement. The soil boring logs and monitoring well as-built specifications are presented in Appendix B. The monitoring well locations are indicated on the Site Map (Appendix A).

Undisturbed soil samples, collected from the boring with the sampler, were logged by the supervising engineer and screened for the presence of volatile organic compounds (VOCs) using an HNu™ systems Model PI 101 photo ionizing detector (PID). Soils were screened using the Griffin Jar/Polyethylene Bag Headspace Screening Protocol, which conforms to state and industry standards. Detailed soil descriptions and VOC concentrations are listed on the well logs in Appendix B.

MW-1

MW-1 was attempted on the north end of the former UST basin, cross-gradient of the former USTs. The boring was attempted in three locations and met refusal with each effort. Due to the loose soil in the vicinity of proposed MW-1, the sampling auger was unable to recover any soil.

MW-2

The boring for MW-2 was advanced to 13.4 feet below grade, the driller met refusal at this depth. Soils from the boring for MW-2 consisted of white fine cobble fill from grade to a depth of 3 feet. Fine gravel with some clay and silt were observed from 3 to 6 feet below grade. Black fine gravel with silt and little clay with a slight petroleum odor was observed from 6 to 6.5 feet below grade. Gray fine gravel with silt and some clay was observed from 6.5 to 11 feet below grade. Gray clay with silt and some fine gravel was observed from 11 to 13.4 feet below grade. Refusal was met at a depth of 13.4 feet, the cause of refusal is thought to be bedrock. Low PID readings were recorded in all of the soil samples, ranging from 0 to 15 parts per million (ppm).

MW-3

The boring for MW-3 was advanced to 7.9 feet below grade, the driller met refusal at this depth. Soils from the boring for MW-3 consisted of white fine cobble fill from grade to a depth of 3 feet. Black fine clay with silt and little fine gravel with a slight petroleum odor was observed from 3 feet to 7.9 feet below grade. Refusal was met at a depth of 7.9 feet, the cause of refusal is thought to be bedrock. A soil sample collected at a depth of 7.5 feet below grade contained a PID reading of 36 ppm.

MW-4

The boring for MW-4 was again advanced to 14 feet below grade. Soils from this boring consisted of dry medium to fine sand from grade to a depth of 3.5 feet. Clay with silt and little fine gravel was observed from 3.5 feet to 8.5 feet below grade. Gray clay with silt, some fine sand, and little fine gravel was observed from 8.5 feet to a depth of 14 feet. Refusal was met at a depth of 14 feet, the cause of refusal is thought to be bedrock. Petroleum odors were observed in this boring from 8 to 14 feet below grade. PID readings were recorded in these soils, ranging from 62 to 180 ppm.

B. Determination of Groundwater Flow Direction and Gradient

On December 29, 1997, depth to water measurements were taken with a Keck™ interface probe in two of the three site wells; MW-3 contained no water. Because groundwater was present in only two monitoring wells, groundwater flow direction and gradient could not be calculated. However, based on the site topography and the relative location of the Stevens Brook, groundwater is believed to flow to the west. All groundwater level data are recorded in Appendix C.

C. Groundwater Sample Collection and Analysis

Immediately following well gauging, samples of the groundwater were collected from the two monitoring wells. Samples were analyzed per EPA Method 602 for benzene, toluene, ethyl benzene, and xylenes (BTEX), and methyl tertiary butyl ether (MTBE). Results of the laboratory analyses for wells sampled December 29, 1997 are summarized in Appendix D. Laboratory report forms are presented in Appendix E.

Benzene, ethylbenzene, and xylenes are present above the Vermont Groundwater Enforcement Standards (VGESs) in the sample collected from MW-4. Due to the contaminant concentrations present in MW-4 the detection limit for MTBE was raised to levels above the VGES. None of the targeted compounds were present above VGES in the sample collected from MW-2.

All samples were collected according to Griffin's groundwater sampling protocol which complies with industry and state standards. Results from the analyses of the duplicate and trip blank samples indicate that adequate quality assurance and control (QA/QC) were maintained during sample collection and analysis.

D. Sensitive Receptor Risk Assessment

A receptor risk assessment was conducted to identify known and potential receptors of the contamination detected at the Midway Minit Stop. A visual survey was conducted at the time of monitoring well installation and during the UST closure inspection. Based on these observations, a determination of the potential risk to identified receptors was conducted based on proximity to the source area, groundwater flow direction, and contaminant concentration levels in groundwater.

Water Supplies

The village of St. Albans receives its water from St. Albans Reservoir which is located approximately 4.5 miles to the southeast of the site. It is not likely that the town water supply is at significant risk of petroleum contamination from the Midway Minit Stop. This is based on the fact that water source is located at a distance which is great enough to most likely be unaffected by the low levels of contamination detected on site. Properties immediately surrounding the Midway Minit Stop are reportedly all served by this municipal water source.

Buildings in the Vicinity

Midway Minit Stop is the only building located on the subject property. The area immediately surrounding the site is comprised primarily of commercial properties. A factory is located approximately 500 to 600 feet to the west. A dentist office is located on the southern property border, approximately 30 to 40 feet from the former UST basin. To the east, across US Route 7, there are several houses. These houses are approximately 10 to 20 feet higher in elevation than

the subject property. To the north there is a sporting goods store; the store is approximately 150 feet from the former UST basin. No complaints have been reported of petroleum odors within any building immediately surrounding the Midway Minit Stop site.

A large addition was recently constructed on the southwest side of the building. According to the building owner Dan Brannon, no evidence of petroleum contamination was encountered during the extensive excavation and construction of this addition.

Surface Water

The nearest surface water is the Stevens Brook located approximately 1200 feet to the west of the site. Given its sufficient distance from the site and the relatively low source strength at the Midway Minit Stop site, it is unlikely that this surface water body will be adversely affected by the contamination at this site.

IV. CONCLUSIONS

Based on the initial site investigation of petroleum contamination resulting from three former gasoline USTs at the Midway Minit Stop site, the following conclusions are offered:

1. Based on the site topography and the relative location of the Stevens Brook, groundwater is believed to flow to the west
2. Benzene, ethylbenzene, and xylenes are present above the VGESs in the sample collected from MW-4. The presumed downgradient extent of dissolved petroleum contamination has not been defined.
3. None of the targeted compounds were present above VGES in the sample collected from MW-2.
4. Receptors in the area include the on-site building. According to the building owner Dan Brannon, no evidence of petroleum contamination was encountered during extensive excavation on construction on the south side of the building.
5. Over time, the natural processes of dilution, dispersion, and biodegradation will continue to reduce dissolved contaminant concentrations present in shallow groundwater beneath the Midway Minit Stop.
6. The former apparent source of contamination at the site (gasoline USTs) has been removed.
7. No free product was present in the on-site wells on December 29, 1997.

V. RECOMMENDATION

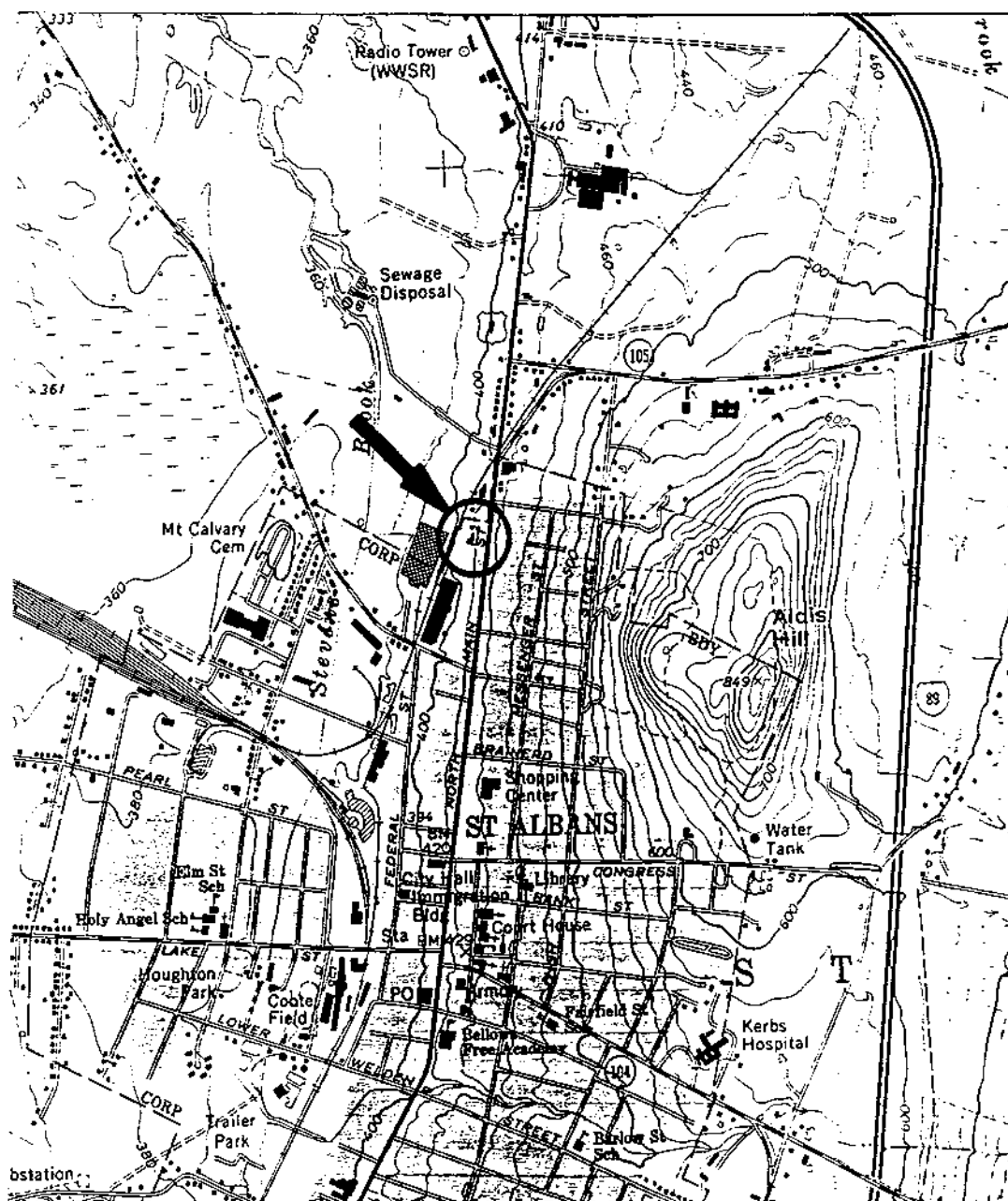
Because of the low levels of contamination present on the site and the lack of sensitive receptors in the area, Griffin recommends conducting one round of confirmatory sampling. This round of sampling will take place in May of 1998, and samples will be analyzed by EPA Method 602 for the presence of petroleum related compounds. Following this sampling event if contaminant levels are found to be stable or falling, the VTDEC should consider this site eligible for Sites Management Activity Completed (SMAC) status.

References

1. Doll, Charles G., ed., 1970, Surficial Geologic Map of Vermont, State of Vermont.
2. Doll, Charles G., ed., 1961, Centennial Geologic Map of Vermont, State of Vermont.

APPENDIX A

Maps



JOB #: 89741073
SOURCE: USGS- ST. ALBANS, VERMONT QUADRANGLE



MIDWAY MINUT STOP

ST. ALBANS, VERMONT

SITE LOCATION MAP

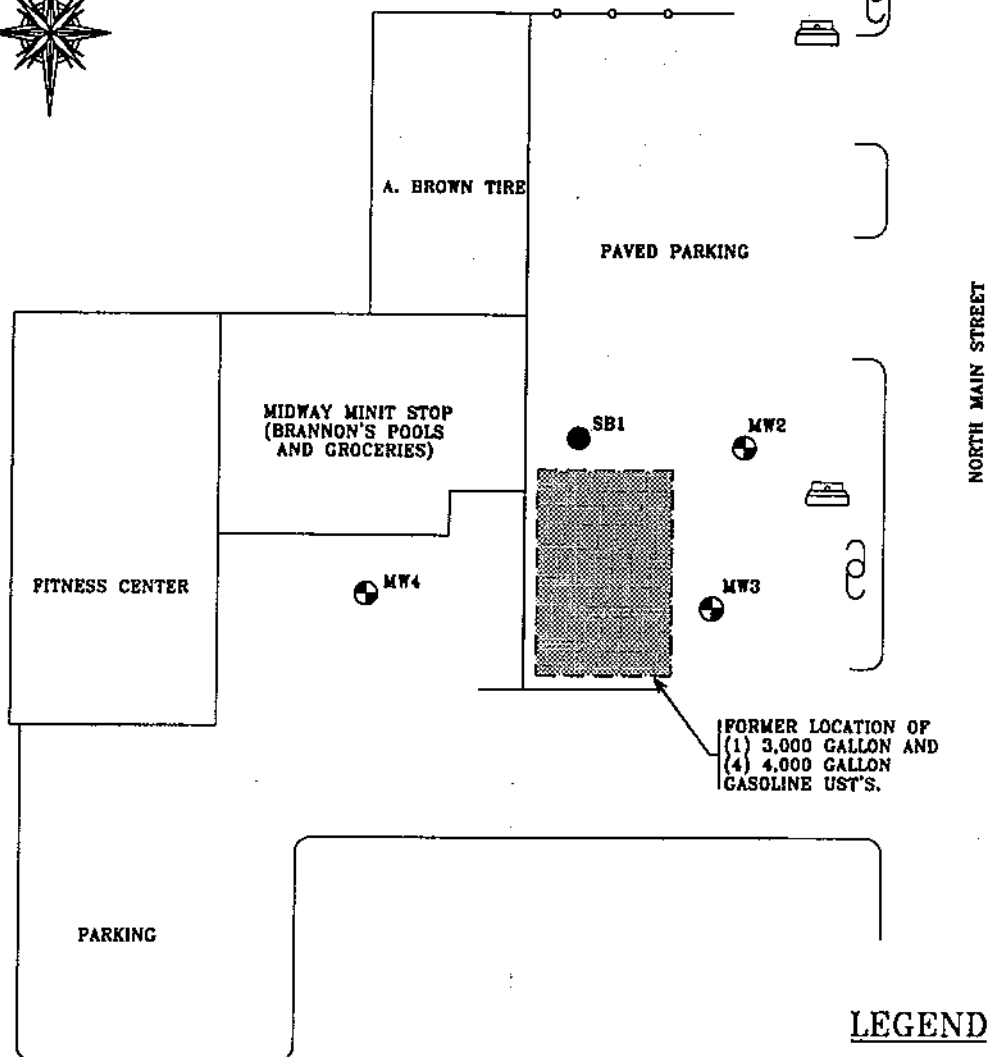
DATE: 1/6/98

DWG.#:1





SCALE: 1:24000

DRN.:SB

APP.:RH



LEGEND

-  MW2 MONITORING WELL
-  APPROXIMATE LOCATION OF FORMER UST'S
-  BUSINESS SIGN
-  UTILITY POLE

JOB #: 89741073



MIDWAY MINUT STOP

ST. ALBANS, VERMONT

SITE MAP

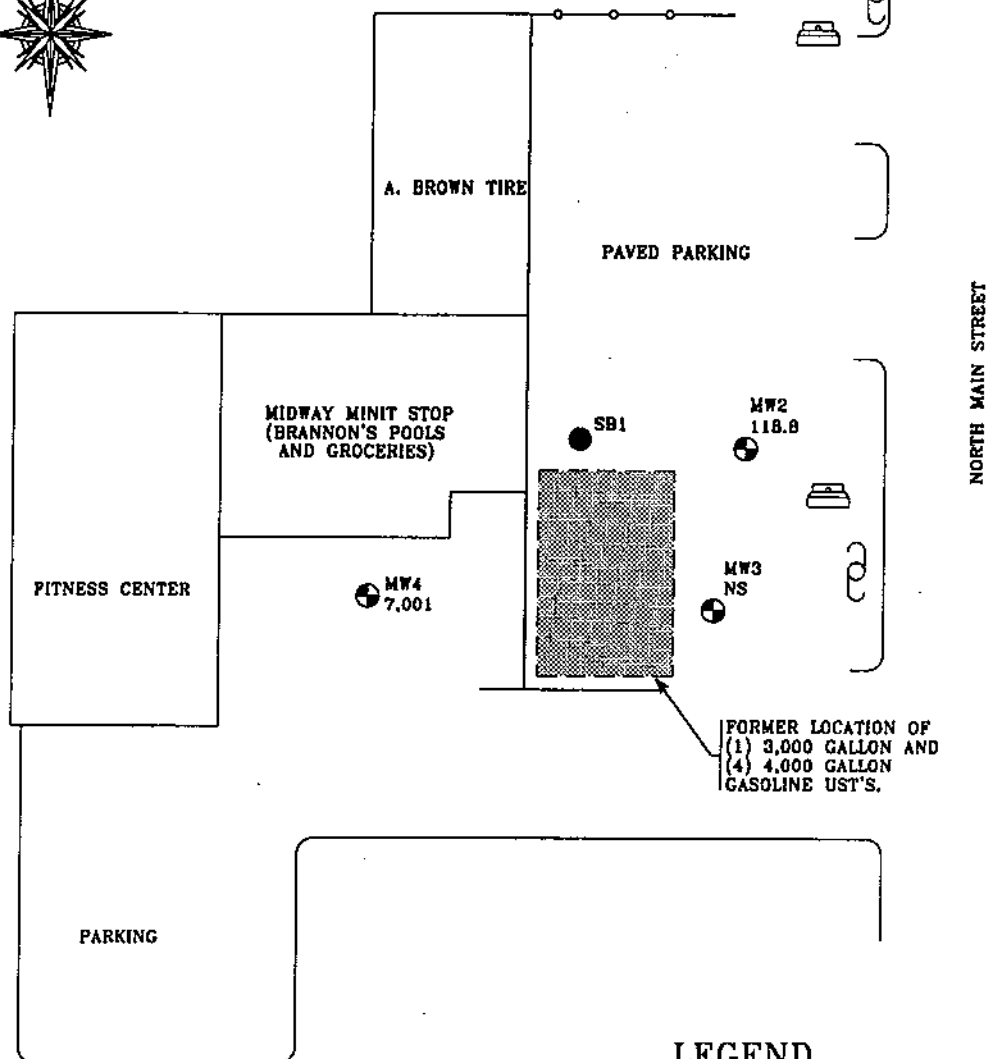
DATE: 1/6/98

DWG.#:2

SCALE: 1"=50'

DRN.:SB

APP.:RH



LEGEND

● MW2 118.8 MONITORING WELL AND TOTAL BTEX AND MTBE CONCENTRATION (ppb)

■ APPROXIMATE LOCATION OF FORMER UST'S

□ BUSINESS SIGN

⌋ UTILITY POLE

JOB #: 89741073
SAMPLE DATE: 12/29/97



MIDWAY MINUT STOP

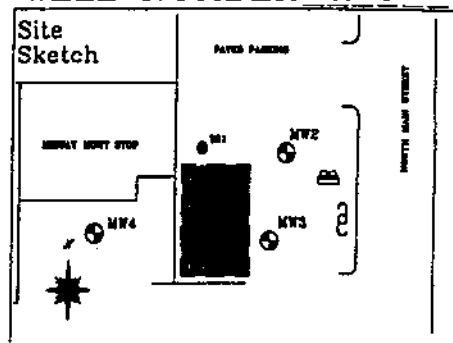
ST. ALBANS, VERMONT

CONTAMINATION CONCENTRATION MAP

DATE: 1/19/98	DWG. #: 3	SCALE: 1"=50'	DRN.: SB	APP.: RH
---------------	-----------	---------------	----------	----------

APPENDIX B

Well Logs

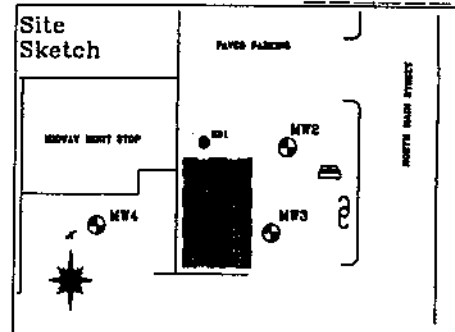
PROJECT MIDWAY MINIT STOPLOCATION ST. ALBANS, VERMONTDATE DRILLED 12/22/97 TOTAL DEPTH OF HOLE 13.4'DIAMETER 2.75"SCREEN DIA. 1.5" LENGTH 9.8' SLOT SIZE 0.010"CASING DIA. 1.5" LENGTH 3.1' TYPE sch 40 pvcDRILLING CO. ADAMS ENGR. DRILLING METHOD VIBRATORYDRILLER GERRY ADAMS LOG BY R. HIGGINSWELL NUMBER MW2

GRIFFIN INTERNATIONAL, INC

DEPTH IN FEET	WELL CONSTRUCTION	NOTES	BLOWS PER 6" OF SPOON & PID READINGS	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	DEPTH IN FEET
0	ROAD BOX	LOCKING WELL CAP			0
1	CONCRETE				1
2	BENTONITE			White, fine, COBBLE FILL, dry, no odor.	2
3	WELL RISER				3
4			3'-6' 0 ppm	Brown, fine GRAVEL with some clay, and silt, dry, no odor.	4
5					5
6	SAND PACK		6'-6.5' 15 ppm	Black, fine GRAVEL with silt and little clay, dry, slight petroleum odor.	6
7					7
8				Gray, fine GRAVEL with silt and some clay, dry, slight petroleum odor.	8
9	WELL SCREEN		6.5'-11' 15 ppm	9.6' WATER TABLE	9
10					10
11					11
12	BOTTOM CAP		11'-13.4' 0.2 ppm	Gray CLAY with silt and some fine gravel, dry, no odor.	12
13	UNDISTURBED NATIVE SOIL				13
14				BASE OF WELL AT 13.4' END OF EXPLORATION AT 13.4'	14
15					15
16					16
17					17
18					18
19					19
20					20
21					21
22					22
23					23
24					24
25					25

PROJECT MIDWAY MINIT STOP
 LOCATION ST. ALBANS, VERMONT
 DATE DRILLED 12/22/97 TOTAL DEPTH OF HOLE 7.9'
 DIAMETER 2.75"
 SCREEN DIA. 1.5" LENGTH 4.8' SLOT SIZE 0.010"
 CASING DIA. 1.5" LENGTH 2.6' TYPE sch 40 pvc
 DRILLING CO. ADAMS ENGR. DRILLING METHOD VIBRATORY
 DRILLER GERRY ADAMS LOG BY R. HIGGINS

WELL NUMBER MW3

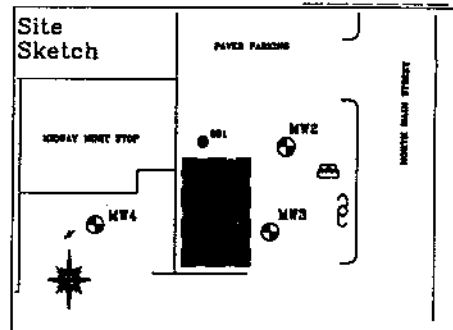


GRIFFIN INTERNATIONAL, INC

DEPTH IN FEET	WELL CONSTRUCTION	NOTES	BLOWS PER 6" OF SPOON & PID READINGS	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	DEPTH IN FEET
0		ROAD BOX			0
1		LOCKING WELL CAP			1
2		CONCRETE		White, fine, STONE FILL, dry, no odor.	2
3		BENTONITE			3
4		WELL RISER			4
5		SAND PACK	3'-7' 0 ppm	Brown, CLAY and SILT, with little fine gravel, dry, no odor.	5
6		WELL SCREEN			6
7		BOTTOM CAP			7
8		UNDISTURBED NATIVE SOIL	7'-7.9' 36 ppm	Black CLAY with silt and little fine gravel, damp, petroleum odor.	8
9				BASE OF WELL AT 7.9'	9
10				END OF EXPLORATION AT 7.9'	10
11					11
12					12
13					13
14					14
15					15
16					16
17					17
18					18
19					19
20					20
21					21
22					22
23					23
24					24
25					25

PROJECT MIDWAY MINIT STOP
 LOCATION ST. ALBANS, VERMONT
 DATE DRILLED 12/22/97 TOTAL DEPTH OF HOLE 14.0'
 DIAMETER 2.75"
 SCREEN DIA. 1.5" LENGTH 9.8' SLOT SIZE 0.010"
 CASING DIA. 1.5" LENGTH 3.7' TYPE sch 40 pvc
 DRILLING CO. ADAMS ENGR. DRILLING METHOD VIBRATORY
 DRILLER GERRY ADAMS LOG BY R. HIGGINS

WELL NUMBER MW4



GRIFFIN INTERNATIONAL, INC

DEPTH IN FEET	WELL CONSTRUCTION	NOTES	BLOWS PER 6" OF SPOON & PID READINGS	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	DEPTH IN FEET
0	ROAD BOX	LOCKING WELL CAP			0
1	CONCRETE				1
2	BENTONITE			Brown, medium to fine SAND, dry, no odor.	2
3	WELL RISER				3
4				Brown, CLAY with SILT, and little fine gravel, damp.	4
5					5
6			3.5'-8.5' 0 ppm		6
7	SAND PACK			7.5' WATER TABLE	7
8					8
9	WELL SCREEN				9
10			8.5'-14' 180 ppm		10
11				Gray CLAY, SILT, some fine sand, and little fine gravel, wet, petroleum odor.	11
12					12
13	BOTTOM CAP				13
14	UNDISTURBED NATIVE SOIL			BASE OF WELL AT 14' END OF EXPLORATION AT 14'	14
15					15
16					16
17					17
18					18
19					19
20					20
21					21
22					22
23					23
24					24
25					25

APPENDIX C

Groundwater Liquid Level Data

**Liquid Level Monitoring Data
Midway Minit Stop
St. Albans, VT**

Monitoring Date: 12/29/97

Well I.D.	Top of Casing Elevation	Depth To Product	Depth To Water	Product Thickness	Specific Gravity Of Product	Hydro Equivalent	Corrected Depth To Water	Corrected Water Table Elevation
MW-2	100.00	-	9.64	-	-	-	9.64	90.36
MW-3	99.46	-	Dry	-	-	-	Dry	Dry
MW-4	88.48	-	7.50	-	-	-	7.50	80.98

APPENDIX D

Groundwater Quality Summary Data

Groundwater Quality Summary
Midway Minit Stop
St. Albans, VT

PARAMETER	MW2				Enforcement Standard
	12/29/97				
Benzene	4.5				5
Chlorobenzene	<1				100
1,2-DCB	<1				600
1,3-DCB	<1				600
1,4-DCB	<1				75
Ethylbenzene	4.7				700
Toluene	1.6				1,000
Xylenes	108.				10,000
Total BTEX	118.8				-
MTBE	<10				40
BTEX+ MTBE	118.8				-

PARAMETER	MW3				Enforcement Standard
	12/29/97				
Benzene	insufficient water				5
Chlorobenzene	to collect sample				100
1,2-DCB					600
1,3-DCB					600
1,4-DCB					75
Ethylbenzene					700
Toluene					1,000
Xylenes					10,000
Total BTEX					-
MTBE					40
BTEX+ MTBE					-

All Values Reported in ug/L (ppb)

ANALYSIS BY EPA METHOD 602

**Groundwater Quality Summary
Midway Minit Stop
St. Albans, VT**

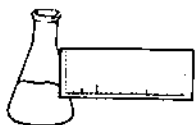
PARAMETER	MW4				Enforcement Standard
	12/29/97				
Benzene	939.				5
Chlorobenzene	< 50				100
1,2-DCB	< 50				600
1,3-DCB	< 50				600
1,4-DCB	< 50				75
Ethylbenzene	1,480.				700
Toluene	252.				1,000
Xylenes	4,330.				10,000
Total BTEX	7,001.				-
MTBE	< 500				40
BTEX + MTBE	7,001.				-

All Values Reported in ug/L (ppb)

ANALYSIS BY EPA METHOD 602

APPENDIX E

Laboratory Analysis Reports



ENDYNE, INC.

Laboratory Services

32 James Brown Drive
Williston, Vermont 05495
(802) 879-4333
FAX 879-7103

REPORT OF LABORATORY ANALYSIS

CLIENT: Griffin International
PROJECT NAME: Food & Gas
REPORT DATE: January 6, 1998
DATE SAMPLED: December 29, 1997

PROJECT CODE: GIFG1847
REF.#: 115,090 - 115,093

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. Chain of custody indicated sample preservation with HCl.

All samples were prepared and analyzed by requirements outlined in the referenced method and within the specified holding times. All instrumentation was calibrated with the appropriate frequency and verified by the requirements outlined in the referenced method. Blank contamination was not observed at levels affecting the analytical results.

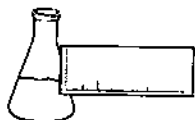
Analytical method precision and accuracy was monitored by laboratory control standards which included matrix spike, duplicate and quality control analyses. These standards were determined to be within established laboratory method acceptance limits.

Individual sample performance was monitored by the addition of surrogate analytes to each sample. All surrogate recovery data was determined to be within laboratory QA/QC guidelines unless otherwise noted.

Reviewed by,

Harry B. Locker, Ph.D.
Laboratory Director

enclosures

**ENDYNE, INC.****Laboratory Services**

32 James Brown Drive
Williston, Vermont 05495
(802) 879-4333
FAX 879-7103

EPA METHOD 602--PURGEABLE AROMATICS**CLIENT:** Griffin International**DATE RECEIVED:** December 30, 1997**PROJECT NAME:** Food & Gas**REPORT DATE:** January 6, 1998**CLIENT PROJ. #:** 89741073**PROJECT CODE:** GIFG1847

Ref. #:	115,090	115,091	115,092	115,093	
Site:	Trip Blank	MW #4	Duplicate	MW #2	
Date Sampled:	12/29/97	12/29/97	12/29/97	12/29/97	
Time Sampled:	7:16	9:48	9:48	9:59	
Sampler:	S.B./D.T.	S.B./D.T.	S.B./D.T.	S.B./D.T.	
Date Analyzed:	1/5/98	1/5/98	1/5/98	1/5/98	
UIP Count:	0	>10	>10	>10	
Dil. Factor (%):	100	2	2	100	
Surr % Rec. (%):	95	84	91	83	
Parameter	Conc. (ug/L)	Conc. (ug/L)	Conc. (ug/L)	Conc. (ug/L)	
Benzene	<1	939.	1,610.	4.5	
Chlorobenzene	<1	<50	<50	<1	
1,2-Dichlorobenzene	<1	<50	<50	<1	
1,3-Dichlorobenzene	<1	<50	<50	<1	
1,4-Dichlorobenzene	<1	<50	<50	<1	
Ethylbenzene	<1	1,480.	1,540.	4.7	
Toluene	<1	252.	292.	1.6	
Xylenes	<1	4,330.	4,880.	108.	
MTBE	<10	<500	<500	<10	

Note: UIP = Unidentified Peaks TBQ = Trace Below Quantitation NI = Not Indicated

32 James Brown Drive
Williston, Vermont 05495
(802) 879-4333

CHAIN-OF-CUSTODY RECORD

24913

Project Name: <i>FOOD & GAS</i>	Reporting Address:	Billing Address:
Site Location: <i>ST. ALBANS</i>	<i>GRIFFIN</i>	<i>GRIFFIN</i>
Endyne Project Number: <i>GIF61847</i>	Company: Contact Name/Phone #: <i>ROB WIERING</i>	Sampler Name: <i>STEVE BISHOP</i> Phone #: <i>DONTORANGE</i>

[illegible]

Relinquished by: Signature <i>[Signature]</i>	Received by: Signature <i>[Signature]</i>	Date/Time
Relinquished by: Signature <i>[Signature]</i>	Received by: Signature <i>[Signature]</i>	Date/Time <i>10/30/97 10:05</i>

New York State Project: Yes ☐ No ☒

Requested Analyses

1	pH	6	TKN	11	Total Solids	16	Metals (Specify)	21	EPA 624	26	EPA 8270 B/N or Acid
2	Chloride	7	Total P	12	TSS	17	Coliform (Specify)	22	EPA 625 B/N or A	27	EPA 8010/8020
3	Ammonia N	8	Total Diss. P	13	TDS	18	COD	23	EPA 418.1	28	EPA 8080 Pest/PCB
4	Nitrite N	9	BOD ₅	14	Turbidity	19	BTEX	24	EPA 608 Pest/PCB		
5	Nitrate N	10	Alkalinity	15	Conductivity	20	EPA 601/602	25	EPA 8240		
29	TCLP (Specify: volatiles, semi-volatiles, metals, pesticides, herbicides)										
30	Other (Specify):										



79741073

24913

[illegible]

Relinquished by: Signature <i>[Signature]</i>	Received by: Signature <i>[Signature]</i>	Date/Time
Relinquished by: Signature <i>[Signature]</i>	Received by: Signature <i>[Signature]</i>	Date/Time <i>10/20/07</i>

New York State Project: Yes ☒ No ☒

Requested Analyses

[illegible]